

Opener Question

Simplify

i) $6x^2 + 5 - 8x^2 + 2x$

ii) $(3x + 8y) - (5x - 7y)$

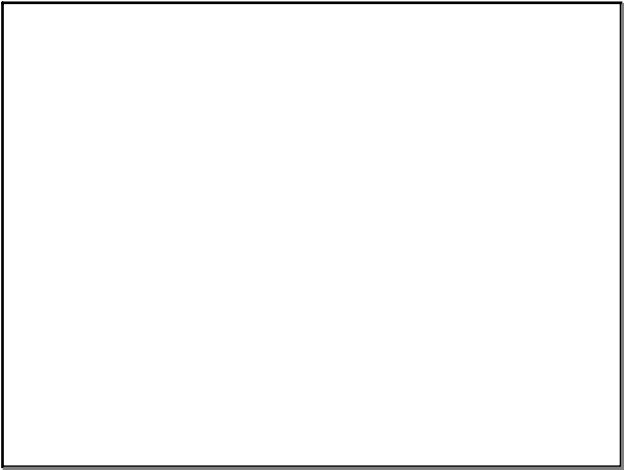
Expand

iii) $2d(3d^4 + 2d - 6)$

Factor

iv) $3x^3y^2 - 6x^2y^2 + 27xy$

Feb 6-8:14 AM



Feb 6-11:52 AM

Opener Question

Simplify

Collect Like Terms

i) $6x^2 + 5 - 8x^2 + 2x$

$-2x^2 + 2x + 5$

ii) $(3x + 8y) - (5x - 7y)$

$3x + 8y - 5x + 7y$
 $-2x + 15y$

Expand

iii) $2d(3d^4 + 2d - 6)$

$6d^5 + 4d^2 - 12d$

Factor

iv) $3x^3y^2 - 6x^2y^2 + 27xy$

$3xy(2x^2 - 2xy + 9y)$

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Solving Equations : One Variable Term

Representing Equations

$a - 3 = 12$

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$+$

$+3$

$-$

9

$=$

$+$

$+3$

$-$

15

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Solving Equations With One Variable Term

Representing Equations

$a - 3 = 12$

Algeblocks Sentences Mat

$+$

$-$

$=$

$+$

$-$

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Solving Equations With One Variable Term

Representing Equations

$x + 5 = 10$

Algeblocks Sentences Mat

$+$

-5

$-$

10

$=$

$+$

-5

$-$

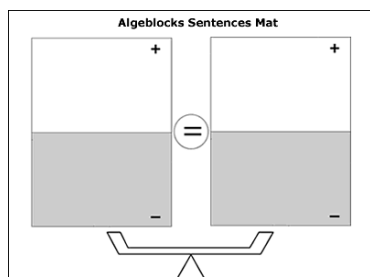
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Solving Equations With One Variable Term

Representing Equations

$$x + 5 = 10$$



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What would your answer have been if the equation looked like this...?

$$a - 2.3 = 4.8$$

$$a = 4.8 + 2.3$$

$$a = 7.1$$

Suddenly, our inspection method becomes much more difficult!

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$$a - 5.32 = 12.64$$

$$n + 3.98 = 2.98$$

$$a = 12.64 + 5.32$$

$$a = 17.96$$

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Two Basic Ways Values Can be "Attached" to the Variable

"Attached" Through Multiplication

$$4x = -18$$

"Attached" Through Division

$$\frac{y}{4} = 5$$

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~~$$5a = 20$$~~

~~$$\frac{5}{5} = \frac{20}{5}$$~~

$$a = 4$$

~~$$3.98n = 7.89$$~~

~~$$\frac{3.98}{3.98} = \frac{7.89}{3.98}$$~~

$$n = \frac{7.89}{3.98}$$

$$n \approx 1.98$$

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~~$$\frac{x}{9} = 3$$~~ (9)

$$x = 27$$

~~$$\frac{7.2}{h} = 6.3$$~~

$$\frac{7.2}{6.3} = \frac{6.3h}{6.3}$$

$$1.1 = h$$

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Representing Equations -Two Step

$2x - 3 = -7$

Step One- Solve by Addition or Subtraction
Step Two- Solve by Multiplication or Division

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$2x - 3 = -7$

Step One- Solve by Addition or Subtraction
Step Two- Solve by Multiplication or Division

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$2x - 3 = -7$
 $2x = -7 + 3$
 $2x = -4$
 $x = -2$

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Representing Equations

$3x - 3 = 9$

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Solving Equations

Step One- Solve by Addition or Subtraction
Step Two- Solve by Multiplication or Division

$3x - 3 = 9$
 $3x = 9 + 3$
 $3x = 12$
 $x = 4$

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Solving Equations

Step One- Solve by Addition or Subtraction
Step Two- Solve by Multiplication or Division

$3x - 3 = 9$

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$x/3 + 7 = 14$

$x/4 - 2 = 4$

Step One- Solve by Addition or Subtraction
Step Two- Solve by Multiplication or Division

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Step One- Solve by Addition or Subtraction
Step Two- Solve by Multiplication or Division

$$x/3 + 7 = 14$$

$$\frac{x}{3} = 14 - 7$$

$$\frac{x}{3} = 7 \quad (3)$$

$$x = 21$$

$$x/4 - 2 = 4$$

$$\frac{x}{4} - 2 = 4$$

$$\frac{x}{4} = 4 + 2$$

$$(4) \frac{x}{4} = 6 \quad (+1)$$

$$x = 24$$

$$\frac{2}{3}x - 6 = 18$$

$$\frac{2}{3}x = 18 + 6$$

$$\frac{2}{3}x = 24$$

$$(3) \frac{2}{3}x = 24 \quad (3)$$

$$2x = 72$$

$$x = 36$$

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$$3x - 10 = 2(x-3)$$

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$$3x - 10 = 2(x-3)$$

$$3x - 10 = 2x - 6$$

$$3x = 2x - 6 + 10$$

$$3x = 2x + 4$$

$$3x - 2x = 4$$

$$x = 4$$

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Homework;
Worksheet Solving Equations
q. 1-5 odds

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